

Human Health Report for Case # L-13-0727

Report Status:

Complete

Status Date:

10/22/2013

CRSS Date:

10/21/2013

SAT Date:

10/22/2013

Health Assessor:**Consolidated PMN?:**

N

Ecotox Related Cases:**Human Health Related Cases:****SAT Chair:****Submitter:**

CAS Number: 1072-53-3

Chemical Name: 1,3,2-Dioxathiolane, 2,2-dioxide**Use:**

Trade

Name: [REDACTED]

PV

- Max(Kg/Yr): [REDACTED]

Physical Chemical Information

Molecular

Weight: [REDACTED]

Physical

State - [REDACTED]

Wt% < 500:

Wt% <
1000:

Melting

Point (Measured): [REDACTED]

Melting Point (est):

Boiling Point (Measured):

Boiling Point (est): 209

Vapor Pressure:

Vapor Pressure (est): 0.04

Water Solubility:

Water Solubility (est): 382

Log Kow:

Log
P:

pH
and/or pKa:

Log
P:

Nanomaterial?

Percent of other substances in PMN formulation:

P2 Rec:

No

Pollution Prevention information provided by the submitter.

SAT P2

RecComments:

SAT Concern Level:

Chemical Category:**Health Rating (1):** 2**Health Rating Comment (1):****Health Rating (2):****Health Rating Comment (2):****Dermal:** Y**DW:** Y**Inh:** Y**Other Description (e.g.,
Ingestion):****Routes of Exposure:** Dermal
Drinking Water Inhalation**Health
Comments:****Exposure Based Review (Health):** Y**Exposure-Based
Testing:****SAT****Keywords:**

SEVER IRR/CORR-E; S; L

SENS-S

ACUTE

LIVER

DEVEL

MUTA

ONCO

PBT**Ratings:**

Persistence	Bioaccumulation	Toxicity	Comments
2	1	2	

Fate Information:

Health Summary:

Absorption is nil through the skin for the neat material, moderate through the skin for the material in solution, and moderate through the lung and GI tract, based on physical/chemical properties. The LVE substance is a potential alkylating agent. There are concerns for severe irritation/possible corrosion to the eye, skin, and lung, dermal sensitization, acute, liver and developmental toxicities, mutagenicity, and oncogenicity, based on the

[REDACTED] and submitted test data.

Test Data**Submitted:**

Submitted with [REDACTED]:

Corrosive to male rabbit eyes, causing irreversible damage: test terminated after one day;

Corrosive to male rabbit skin, causing irreversible damage: test terminated after one day;

Dermal sensitizer in male guinea pigs

Comments and/or Telephone Log:

Artifact	Update/Upload Time
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